

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008609

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl' G01N21/35, G01J11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl' G01N21/00-21/61, G01J3/00-3/52

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JICST FILE (JOIS), Web of Science, IEEE Xplore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	S. KONO et al., : "Coherent detection of mid-infrared radiation up to 60 THz with an LT-GaAs photoconductive antenna", IEE Proceedings-Optoelectronics, June, 2002, pages 105 to 109	1-4, 7
X	M. TANI et al., : "Generation and detection of ultrabroadband Terahertz radiation with photoconductive antennas", Conference Digest., Twenty Seventh International Conference on Infrared and Millimeter Waves, September, 2002, pages 125 to 126	1-4, 7

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search
05 October, 2004 (05.10.04)

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19 October, 2004 (19.10.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-277393 A (Tochigi Nikon Corp.), 25 September, 2002 (25.09.02), Par. Nos. [0033] to [0086]; Figs. 1 to 3 & WO 02/075290 A1	10-12, 15-16, 19
X	L. Duvillaret, et al., : "A Reliable Method for Extraction of Material Parameters in Terahertz Time-Domain Spectroscopy", IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, Vol.2, No.3, September, 1996, pages 739 to 746	10-12, 15-16, 19
A	F.G. Sun, et al., : "Analysis of terahertz pulse measurement with a chirped probe beam", APPLIED PHYSICS LETTERS, Vol.73, No.16, 19 October, 1998 (19.10.98), pages 2233 to 2235	5-6, 8-9, 13-14, 17-18
A	J. Shan, et al., : "Single-shot measurement of terahertz electromagnetic pulses by use of electro-optic sampling", OPTICS LETTERS, Vol.25, No.6, 15 March, 2000 (15.03.00), pages 426 to 428	5-6, 8-9, 13-14, 17-18
A	JP 8-320254 A (AT & T IBM CORP.), 03 December, 1996 (03.12.96), Figs. 1 to 8 & US 5623145 A & EP 727671 A2	5-6, 8-9, 13-14, 17-18